

Simplify the radical expression.

7. $\sqrt{3} \cdot \sqrt{12}$

$\sqrt{36}$

(6)

8. $\sqrt{5}(\sqrt{2} + 1)$

$\sqrt{10} + \sqrt{5}$

9. $(\sqrt{2} + 1)(\sqrt{2} - 1)$

$2 - \sqrt{2} + \sqrt{2} - 1 = (1)$

10. $\frac{1}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}}$

$\frac{\sqrt{2}}{2}$

11. $\frac{\sqrt{18}}{\sqrt{2}} \cdot \frac{\sqrt{9}}{\sqrt{1}} = (3)$

19. $\sqrt{32} + \sqrt{2}$

$4\sqrt{2} + \sqrt{2}$

$(5\sqrt{2})$

20. $\sqrt{75} + \sqrt{3}$

$5\sqrt{3} + \sqrt{3}$

$(6\sqrt{3})$

21. $\sqrt{80} - \sqrt{45}$

$4\sqrt{5} - 3\sqrt{5}$

$(\sqrt{5})$

22. $\sqrt{72} - \sqrt{18}$

$6\sqrt{2} - 3\sqrt{2}$

$(3\sqrt{2})$

23. $4\sqrt{5} + \sqrt{125} + \sqrt{45}$

$4\sqrt{5} + 5\sqrt{5} + 3\sqrt{5}$

$(12\sqrt{5})$

24. $\sqrt{24} - \sqrt{96} + \sqrt{6}$

$2\sqrt{6} - 4\sqrt{6} + \sqrt{6}$

$-2\sqrt{6} = (-\sqrt{6})$

25. $\sqrt{3} \cdot \sqrt{75}$

$\sqrt{3} \cdot 5\sqrt{3}$

$5 \cdot 3$

(15)

26. $\sqrt{16} \cdot \sqrt{4}$

$4 \cdot 2$

(8)

27. $\sqrt{18} \cdot \sqrt{5}$

$3\sqrt{2} \cdot \sqrt{5}$

$(3\sqrt{10})$

41. $\frac{5}{\sqrt{7}} \cdot \frac{\sqrt{7}}{\sqrt{7}}$

$\frac{5\sqrt{7}}{7}$

42. $\frac{2}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}}$

$\frac{\sqrt{2}}{1} = (\sqrt{2})$

43. $\frac{3}{\sqrt{48}}$

$\frac{3}{4\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}}$

$\frac{3\sqrt{3}}{12} = \frac{\sqrt{3}}{4}$

44. $\frac{5}{\sqrt{13}} \cdot \frac{\sqrt{13}}{\sqrt{13}} = \frac{5\sqrt{13}}{13}$